PRODUCT DATA

PUTRAMATARAM
PT. PUTRAMATARAM COATING INTERNATIONAL
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DELTATHERM 600

DESCRIPTION

One-component, heat-resistant, moisture-curing silicone aluminum.

PRINCIPAL CHARACTERISTICS

- Dry heat resistance up to 600°C (1112°F).
- No heat cure necessary between coats.
- To be used for the internal and external protection of steel surfaces.
- Excellent resistance against weathering.
- Also suitable on top of zinc silicate primer.
- A minimum drying time of 3 days at 20°C (68°F) should be allowed before exposure to heat.
- Complies with NACE SP0198 for austenitic stainless. steels and carbon steels under thermal insulation.

BASIC DATA

Number of components	One
Mass density	1.1 kg/l (9.2 lb/US gal)
Volume solids	45 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 412.0 g/kg UK PG 6/23(92) Appendix 3: max. 498.0 g/l (approx. 4.2 lb/US gal)
Temperature resistance (Continuous)	To 600°C (1110°F)
Recommended dry film thickness	25 µm (1.0 mils)
Theoretical spreading rate	18.0 m²/l for 25 µm (722 ft²/US gal for 1.0 mils)
Dry to touch	45 minutes
Overcoating Interval	Minimum: 16 hours
Shelf life	At least 15 months when stored cool and dry
Color and gloss level	Aluminum and black & Eggshell

Note
- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel; blast cleaned to ISO Sa 2½ or SSPC-SP-10, blasting profile 25 – 50 µm (1.0 – 2.0 mils)
- Suitable coating (zinc silicate primer) must be dry, free from any contamination and zinc salts
- Stainless steel; degreased and sweep blast (SSPC SP-16) cleaned to roughness of 40 – 70 µm (1.5 – 2.8 mils) with nonferrous abrasive

  Note: The maximum continuous dry heat temperature when power tool treated surface (ISO-St3) is 400°C

Substrate temperature and application conditions

Substrate temperature during application should be at least 3°C (5°F) above dew point

SYSTEM SPECIFICATION

- Suitable Primers : PPG Ethyl Silicate Zinc Primers
- Do not use HI-TEMP 1027 or 222G as primer
- Direct to stainless steel with suitable surface treatment

INSTRUCTIONS FOR USE

- Power agitate to uniform consistency
- Application with airless equipment is possible, but be careful not to apply more than specified thickness
- When applying more than one coat, it is recommended that the total dry film thickness of DELTATHERM 600 does not exceed 80 µm (3.1 mils)

Air spray

Recommended thinner

No thinner should be added

Nozzle orifice

1.5 – 2.0 mm (approx. 0.060 – 0.079 in)

Nozzle pressure

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

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Brush/roller	For Roller application the best results will be obtained by using fine foam type rollers
Cleaning solvent	THINNER 21-06

ADDITIONAL DATA

Overcoating interval for DFT up to 25 µm (1.0 mils)

Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
Itself..	Minimum	24 hours	16 hours	12 hours	6 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited

Note: Surface should be dry and free from any contamination

Curing time for DFT up to 25 µm (1.0 mils)	Substrate temperature	Dry to touch	Dry to handle
	10°C (50°F)	1 hour	5 hours
	20°C (68°F)	45 minutes	3.5 hours
	30°C (86°F)	30 minutes	2 hours
	40°C (104°F)	15 minutes	1 hour

PACKAGING

Packing	20 kg.
	At least 15 months when stored cool and dry

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SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

- CONVERSION TABLES
- EXPLANATION TO PRODUCT DATA SHEETS
- SAFETY INDICATIONS
- SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD TOXIC HAZARD
- CLEANING OF STEEL AND REMOVAL OF RUST
- SPECIFICATION FOR MINERAL ABRASIVES
- RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE AIR TEMPERATURE

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